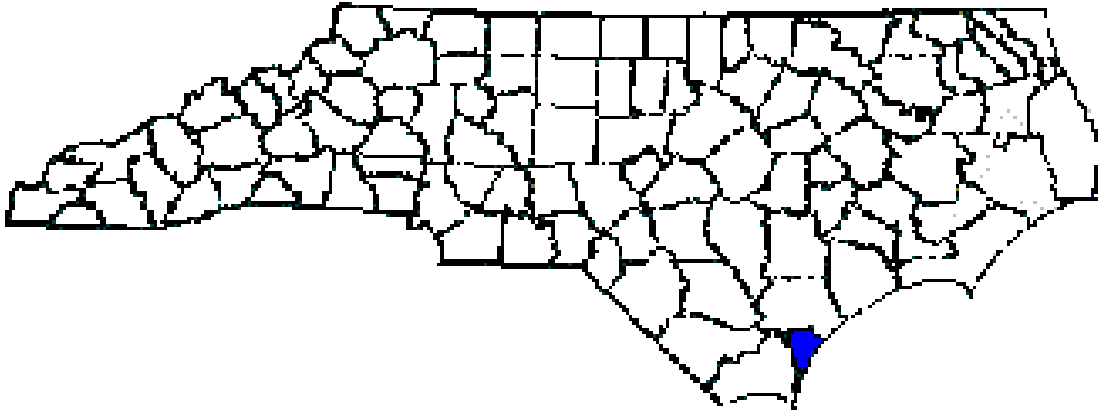


# ANNUAL REPORT FOR 2008



**Bradley Creek Bridge Mitigation Site**  
**New Hanover County**  
**TIP No. B-3496**



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## SUMMARY

The Bradley Creek Bridge Mitigation Site is located in New Hanover County. The site was planted in 2006 and was designed as wetland mitigation for impacts associated with bridge project B-3496.

The mitigation encompasses approximately 0.19 acres of wetland restoration. The restoration effort involved removal of the existing bridge causeway to the elevation of the adjacent marsh and planting *Spartina alterniflora*. The area that was restored is being monitored to ensure that it re-vegetates with *Spartina alterniflora*. Hydrologic monitoring is not required for this project; however, vegetation monitoring is required for three years.

After the third year of monitoring, the Bradley Creek Bridge site shows by visual observation that the *Spartina alterniflora* in the wetland are surviving.

NCDOT recommends discontinuing vegetation monitoring of this site.

## **1.0 INTRODUCTION**

### **1.1 Project Description**

The Bradley Creek Bridge Mitigation site is located at Bridge No. 10 over Bradley Creek on Wrightsville Avenue (SR 1411) in New Hanover County (Figure 1). The site consists of approximately 0.19 acres of mitigation for wetland impacts associated with project B-3496.

### **1.2 Purpose**

In order for a mitigation site to be considered successful, the site must meet vegetation success criteria. This report details the vegetation monitoring in 2008 at the Bradley Creek Bridge Mitigation Site. Hydrologic monitoring was not required for the site.

### **1.3 Project History**

April 2006	Site planted
September 2006	Vegetation Monitoring (1 year)
August 2007	Vegetation Monitoring (2 year)
September 2008	Vegetation Monitoring (3 year)

## **2.0 VEGETATION: BRADLEY CREEK BRIDGE MITIGATION SITE (YEAR 3 MONITORING)**

### **2.1 Success Criteria**

Success Criteria states that the restoration area where the adjacent bridge causeway was removed shall be replanted using *Spartina alterniflora* and the restoration area must re-attain wetland jurisdictional status at the end of three years.

### **2.2 Description of Species**

The following wetland specie was planted in the Wetland Reforestation area:

*Spartina alterniflora*, Smooth Cordgrass

### **2.3 Results of Vegetation Monitoring**

The restoration area where the adjacent bridge causeway was removed and planted is re-attaining wetland jurisdictional status and the planted specie is surviving.

### **2.4 Conclusions**

There were approximately 0.19 acres total of wetland restoration on site. There were no plots established on the site. By visual observation the Bradley Creek Bridge site shows that the planted specie is surviving and that the restoration area is re-attaining wetland jurisdictional status.

## **3.0 OVERALL CONCLUSIONS AND RECOMMENDATIONS**

NCDOT recommends discontinuing vegetation monitoring at the Bradley Creek Bridge site.



**APPENDIX A**

**SITE PHOTOS**

# Bradley Creek Bridge



Photo 1



Photo 2

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